

10/534330

## INTERNATIONAL SEARCH REPORT

Int lional Application No

	INTERNATIONAL SEARCH REPORT	PCT/IB 0:	'IB 03/04877	
A. CLASSII	FICATION OF SUBJECT MATTER H01L23/485			
110 /	NU1E23/ 403			
A				
	International Patent Classification (IPC) or to both national classification and IPC SEARCHED			
Minimum do	cumentation searched (classification system followed by classification symbols)	<del></del>		
IPC 7	HOIL			
Documentat	ion searched other than minimum documentation to the extent that such docume	ints are included in the fields :	searched	
Electronic da	ata base consulted during the international search (name of data base and, whe	ere practical, search terms use	rd)	
EPO-In	ternal, WPI Data, PAJ		•	
			Relevant to claim No.  1,2,5  7  1,2,5  3,4  1,5  3,4  1,5  decimal invention the considered to a document is transitional file and the claimed invention in inventive step when the rimore other such document is transitional file and invention in inventive step when the rimore other such document is transitional file and invention in invention in such document is the rimore other such document is the rimore other such document is the rimore other such document in the rimore other such document in the rimore other such document in the rimore other such document family	
	ENTS CONSIDERED TO BE RELEVANT		T	
Category °	Citation of document, with indication, where appropriate, of the relevant passa	ges 	Relevant to claim No.	
Υ	US 5 719 448 A (ICHIKAWA MATSUO)		1,2,5	
	17 February 1998 (1998-02-17)			
Α	abstract; figure 6 column 3, line 20 - line 51		7	
Υ	 US 6 313 537 B1 (LEE SUENG-ROK ET AL)	•	125	
'	6 November 2001 (2001-11-06)		1,2,5	
	abstract; figure 17C			
A	column 13, line 6 - line 67		3,4	
Α	US 2001/010408 A1 (JIANG HSIN-CHIN ET 2 August 2001 (2001-08-02) abstract; figure 23	AL)	1,5	
	page 4, paragraph 51 - paragraph 52			
	 -/			
	,			
	·			
X Furth	ner documents are listed in the continuation of box C.	atent family members are liste	d in annex.	
° Special ca	tegories of cited documents : "T" later do	cument published after the in	ternational filing date	
	ent defining the general state of the lart which is not cited to be of particular relevance.	rity date and not in conflict wit o understand the principle or t	h the application but	
	document but published on or after the international "X" docume	ent of particular relevance; the	claimed invention	
which	int which may throw doubts on priority claim(s) or Involve is cited to establish the publication date of another	e an inventive step when the d	ocument is taken alone	
citation "O" docume	n or other special reason (as specified) canno ent referring to an oral disclosure, use, exhibition or docum	t be considered to involve an i nent is combined with one or n	nventive step when the nore other such docu-	
other r	means ments ments ent published prior to the international filling date but in the	, such combination being obvi art.	ous to a person skilled	
		ent member of the same pater of mailing of the international se		
		0/02/2004	carun 18part	
		ized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	umur		
		avre, P		

1



## INTERNATIONAL SEARCH REPORT

Int Itional Application No PCT/IB 03/04877

C.(Continu	ition) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Retevant to claim No.
A	US 5 502 337 A (NOZAKI MASAHIKO) 26 March 1996 (1996-03-26) abstract; figures 3,4,15,16 column 2, line 48 -column 4, line 8	1,6
A	column 2, line 48 -column 4, line 8  US 5 281 855 A (ZIRBES GLEN LEO ET AL) 25 January 1994 (1994-01-25) cited in the application abstract; figure 3 column 3, line 30 -column 4, line 9	

1



## **INTERNATIONAL SEARCH REPORT**

onal Application No
PCT/IB 03/04877

	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	5719448	Α	17-02-1998	JP	2168639	A	28-06-1990
US	6313537	B1	06-11-2001	KR	267105		01-11-2000
				JP		Α	09-07-1999
				TW	417268	В	01-01-2001
US	2001010408	A1	02-08-2001	TW	430935	В	21-04-2001
				US	2002017672		14-02-2002
				US	2001010407	A1	02-08-2001
				US	2001010404		02-08-2001
US	5502337	Α	26-03-1996	JP	3432284	B2	04-08-2003
				JP	8017859		19-01-1996
US	5281855	Α	25-01-1994	AU	2190292	Α	12-01-1993
				DE	9218940	U1	09-05-1996
				DE	69222526		06-11-1997
				DE	588944	T1	30-01-1997
				EP	0588944	A1	30-03-1994
				JP	2782558		06-08-1998
				JP	6510364	T	17-11-1994
				WO	9222827	Å1	23-12-1992
				US	5223851	A	29-06-1993